

Please replace the Abstract with the following amended Abstract:

ABSTRACT

Q A new data processing and display method for use in interactive manufacturing process management is achieved. A first variable value, such as WIP, for a manufacturing stage is uploaded from a database. ~~The first variable value~~ and is subtracted from a first target value to obtain a first variable variance. A first variable variance bar is displayed above a stage axis on a graphical display device. ~~The first variable variance bar~~ and is non-filled if the first variable variance is positive and is filled if the first variable variance is negative. A second variable value, such as production moves, is uploaded ~~for the manufacturing stage from the database. The second variable value~~ and is subtracted from a second target value to obtain a second variable variance. A second variable value bar is displayed below the stage axis on the graphical display device. ~~The second variable value bar~~ and is non-filled. A second variable variance bar is displayed below the second variable value bar on the graphical display device if the second variable variance is positive. ~~The second variable~~

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~~variance bar is filled. A new data processing and display
apparatus for use in interactive manufacturing process
management is also achieved.~~
